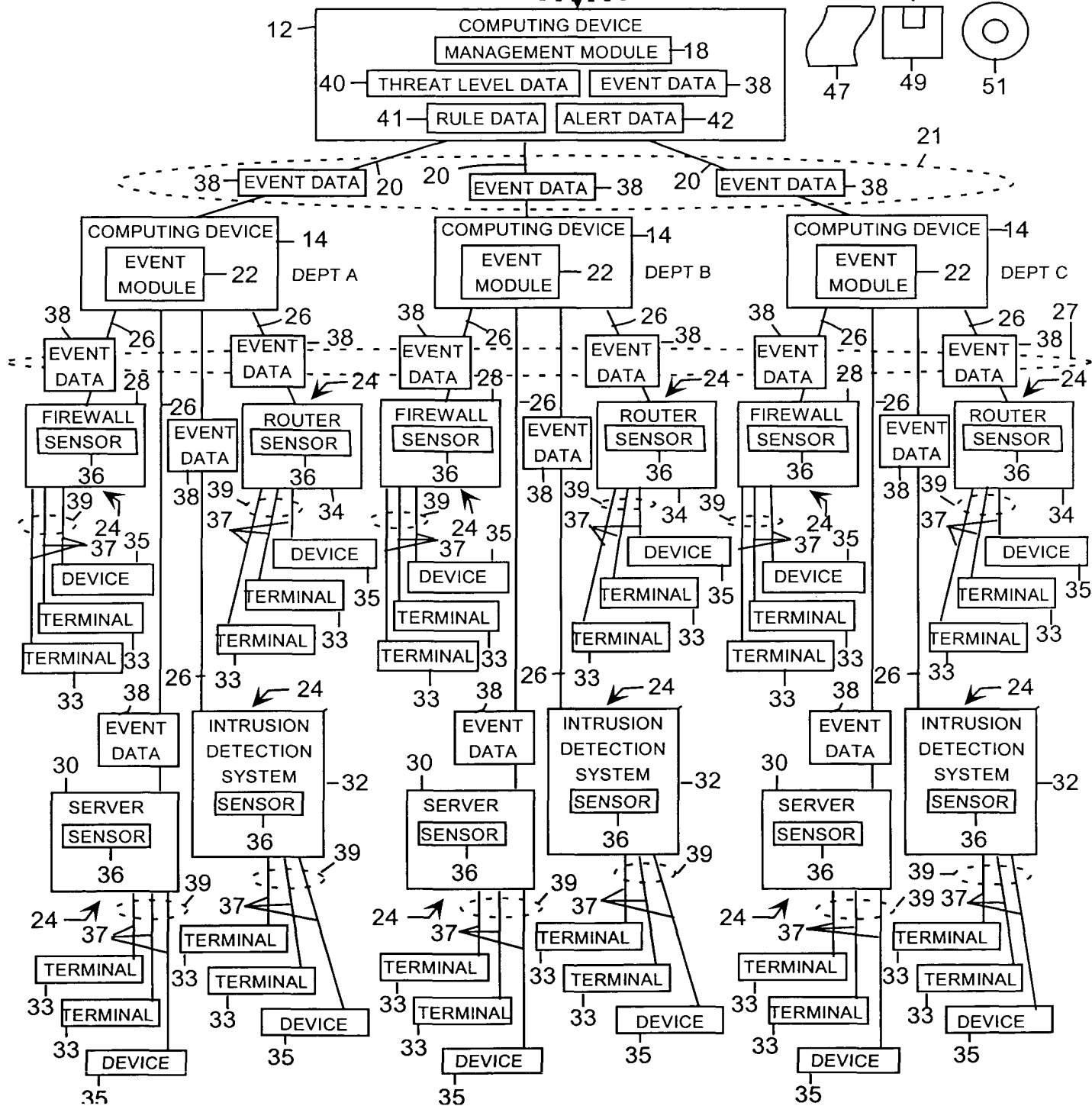


Figure 1 is a block diagram of a threat report/presentation system. It shows a computer monitor (17) displaying a 'THREAT REPORT/PRESENTATION' (40). The report includes 'THREAT LEVEL DATA' (38) and 'EVENT DATA' (55). A keyboard is positioned in front of the monitor.

Diagram illustrating the output unit and its results:

- 19: OUTPUT UNIT
- 3: Input to the output unit.
- 47: Result 1 (Irregular shape)
- 49: Result 2 (Square with a smaller square inside)
- 51: Result 3 (Circle with a smaller circle inside)



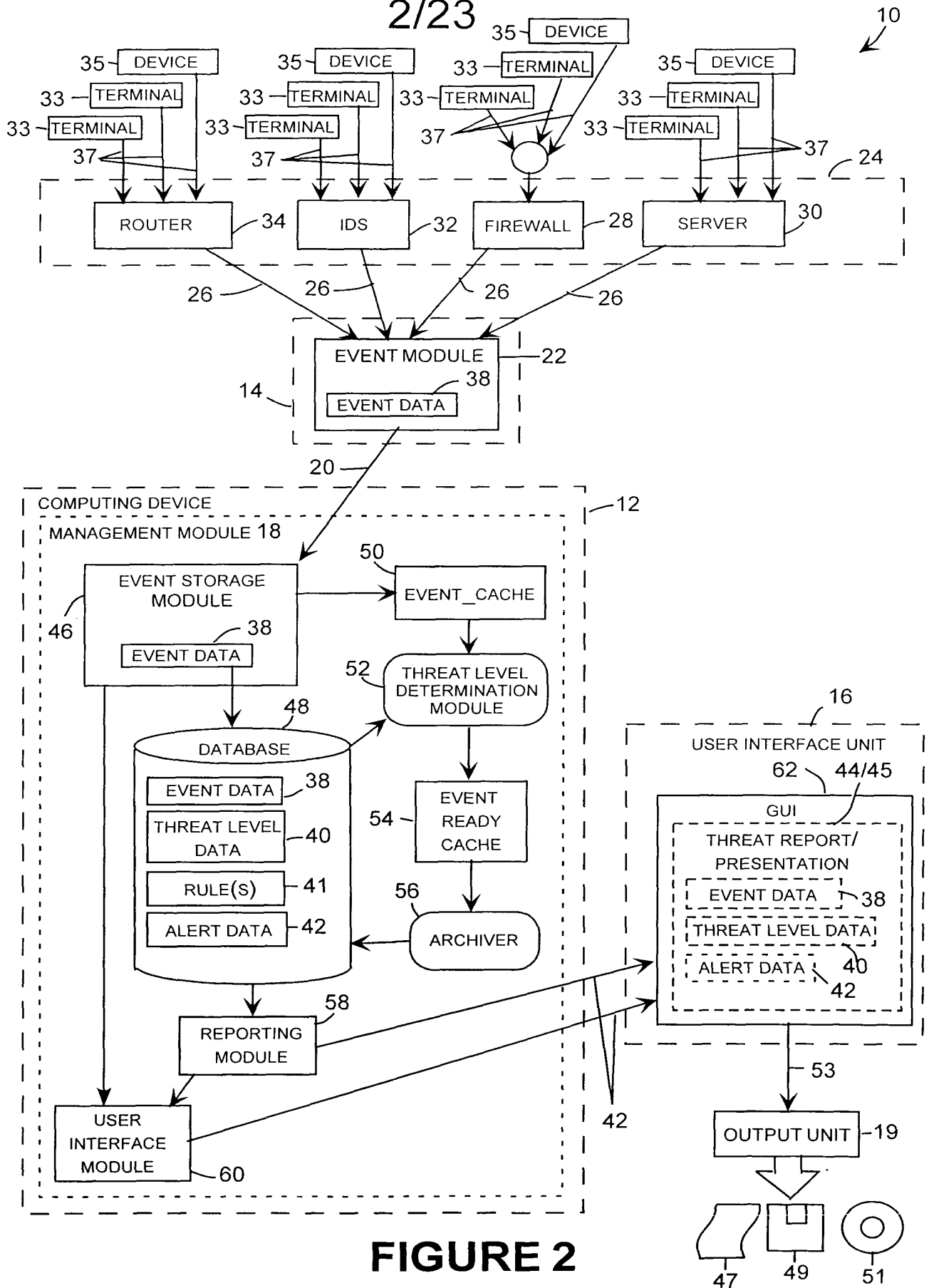


FIGURE 2

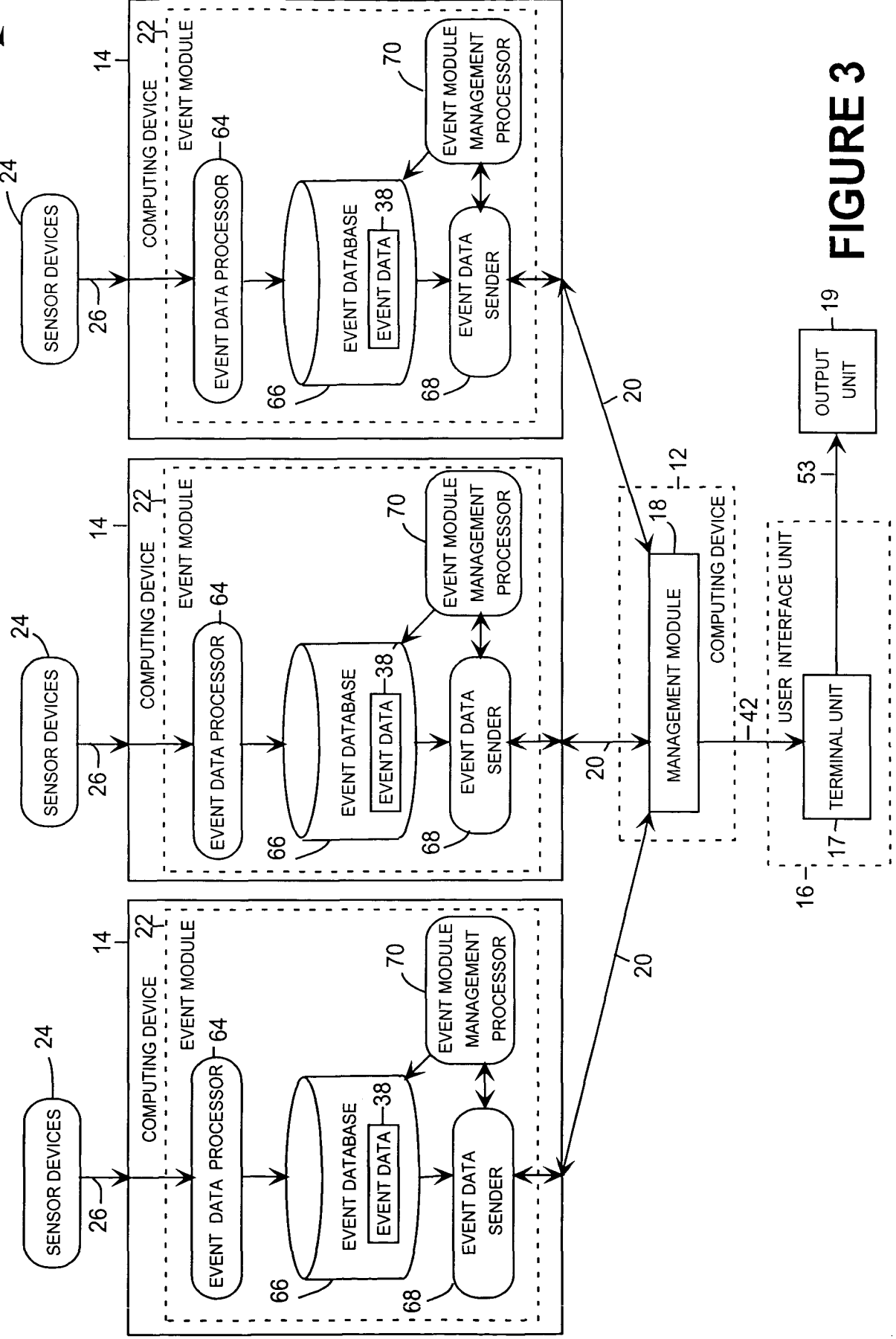


FIGURE 3

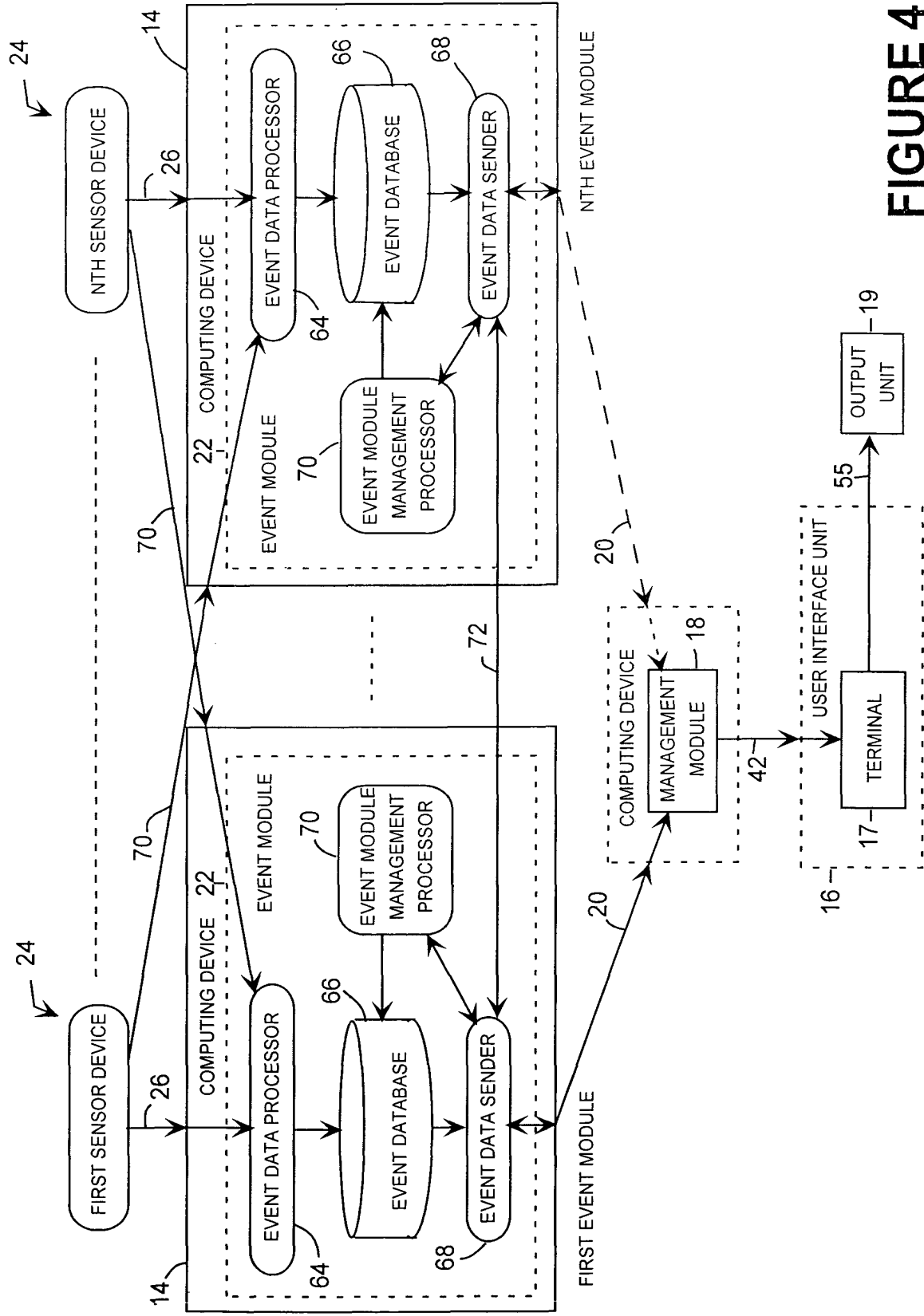
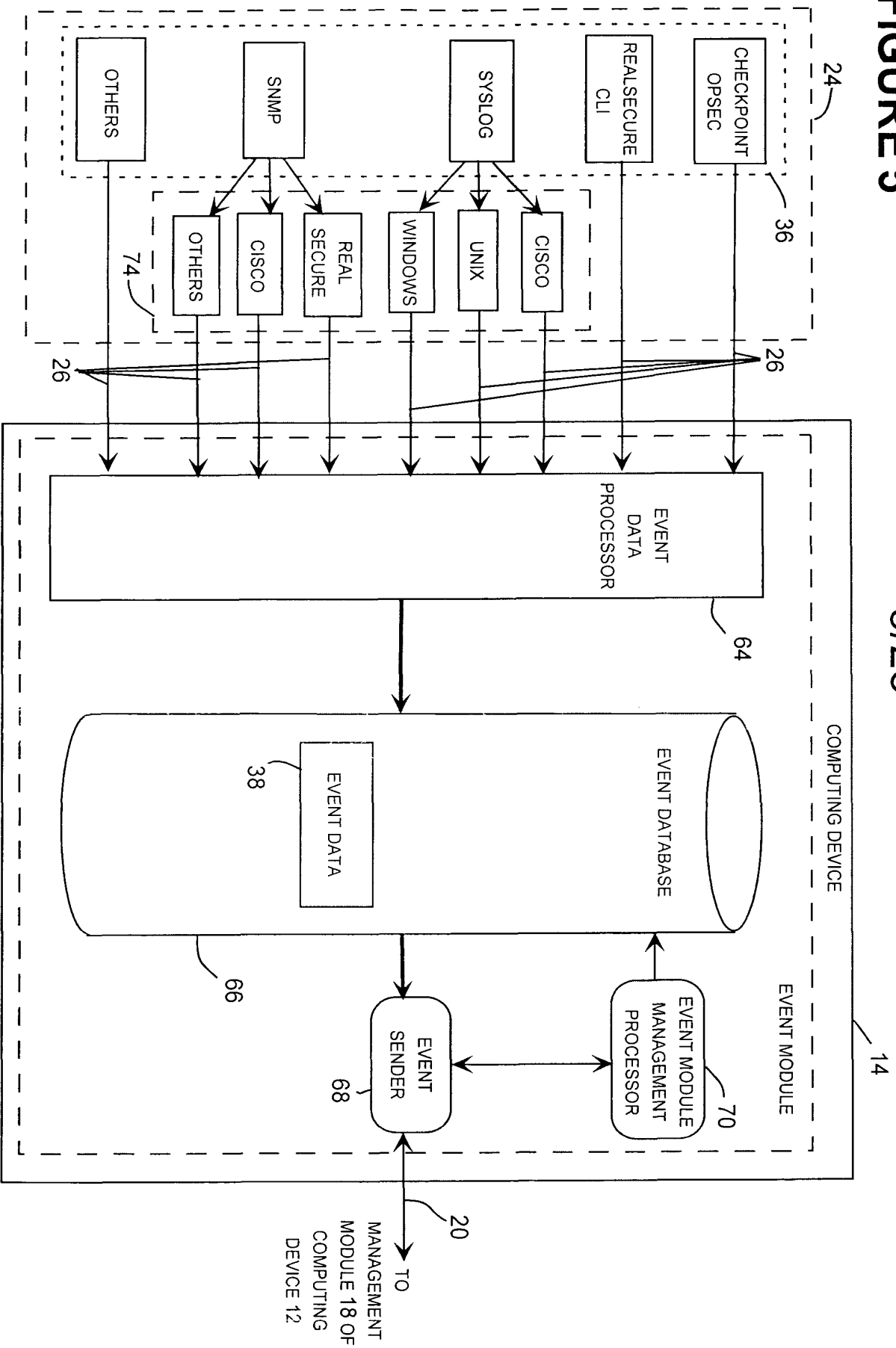
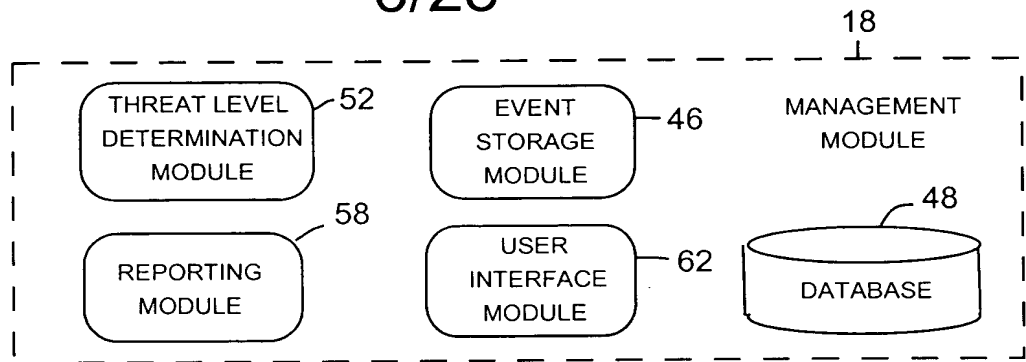
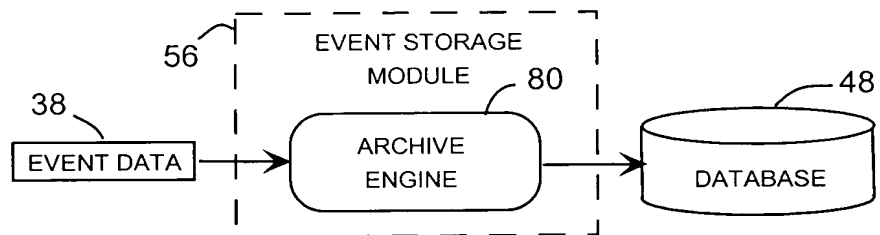
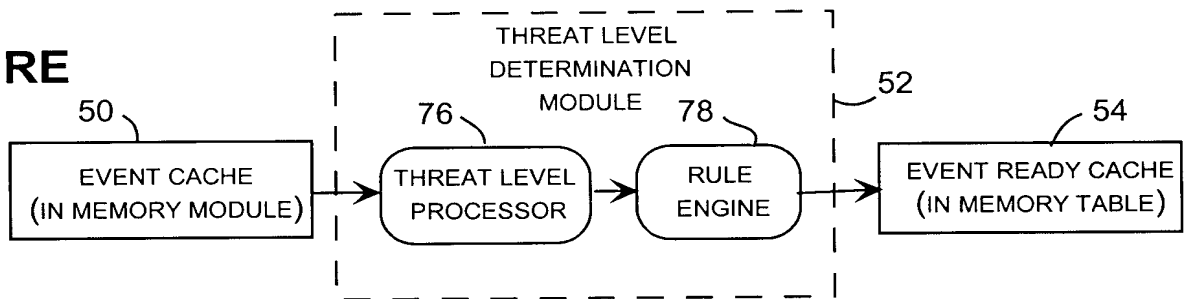
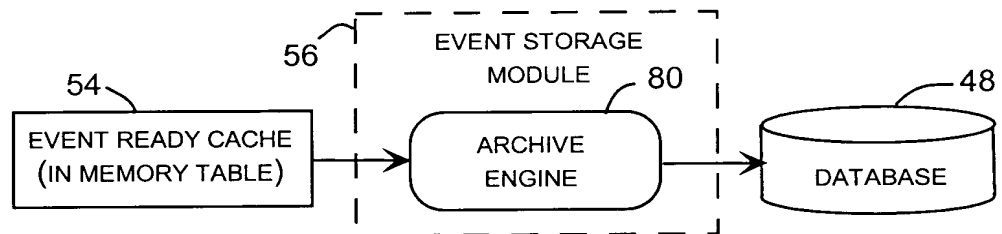


FIGURE 4

FIGURE 5

5/23



**FIGURE  
6****FIGURE  
7****FIGURE  
8****FIGURE  
9**

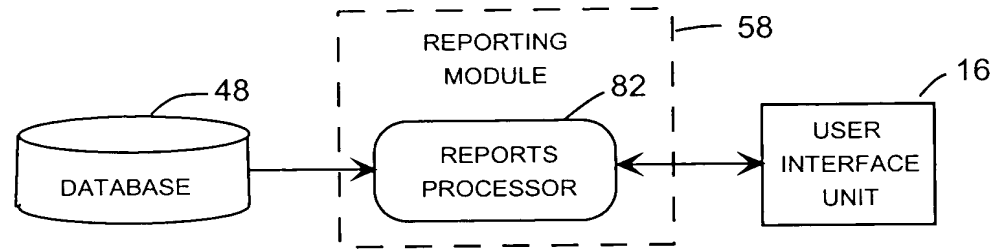
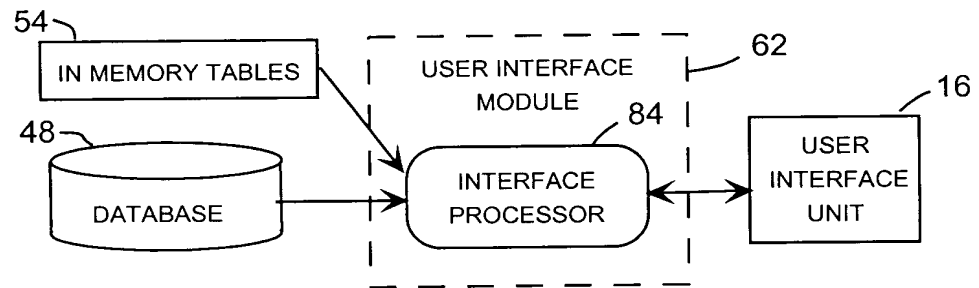
**FIGURE  
10****FIGURE  
11**

FIGURE 12

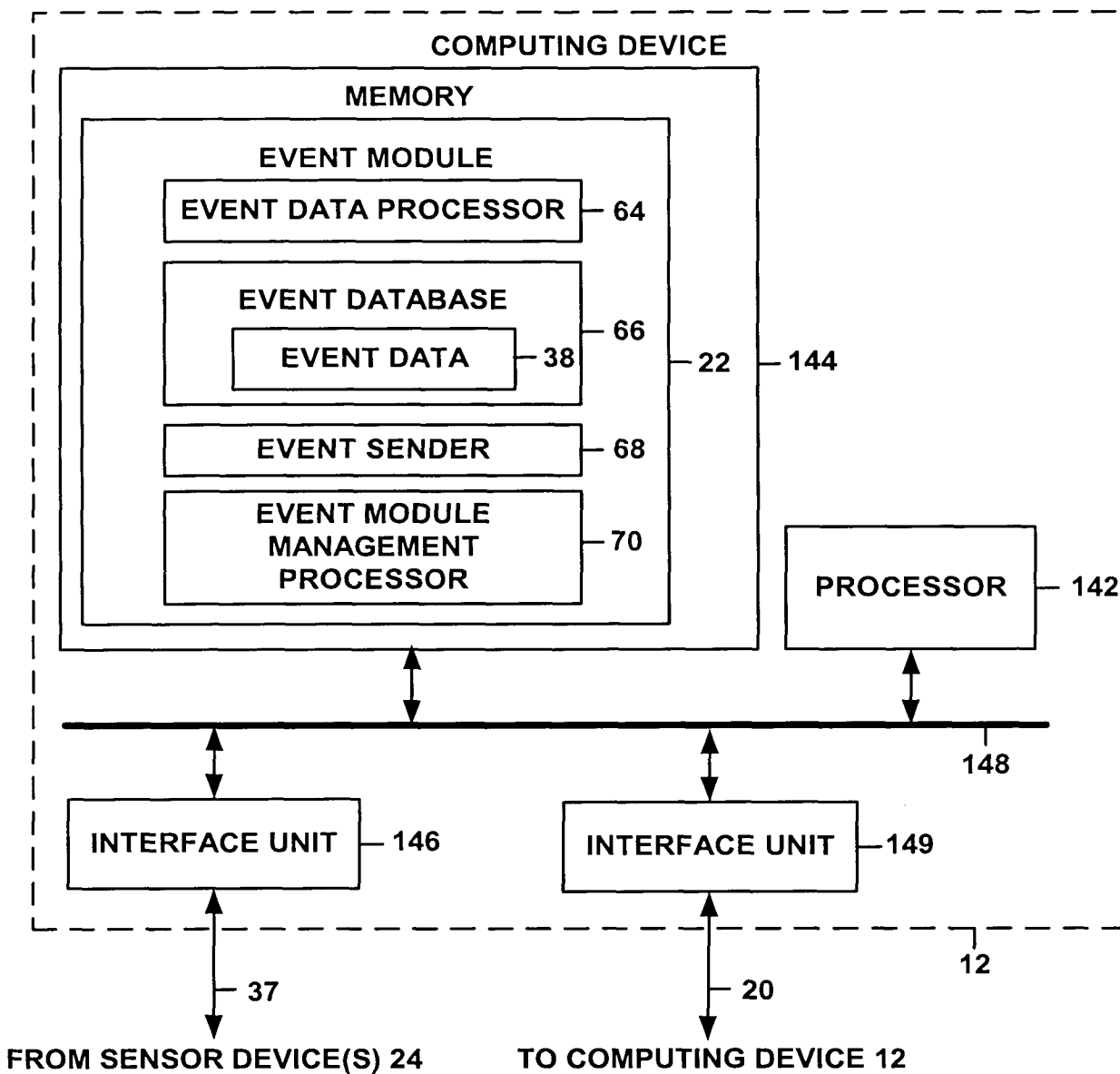




FIGURE 13



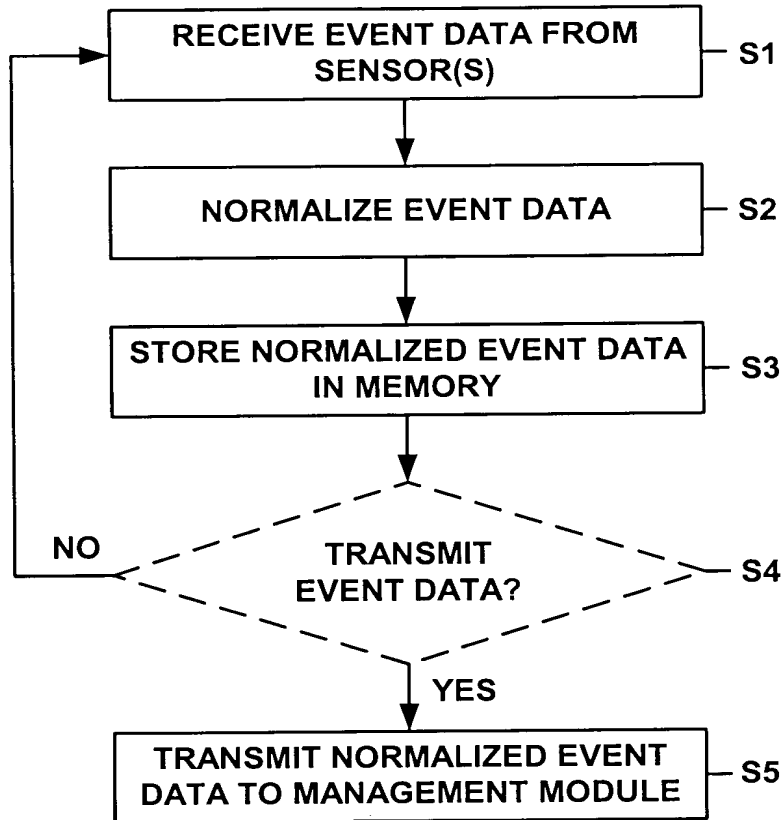
10/23  
**FIGURE 14**



11/23

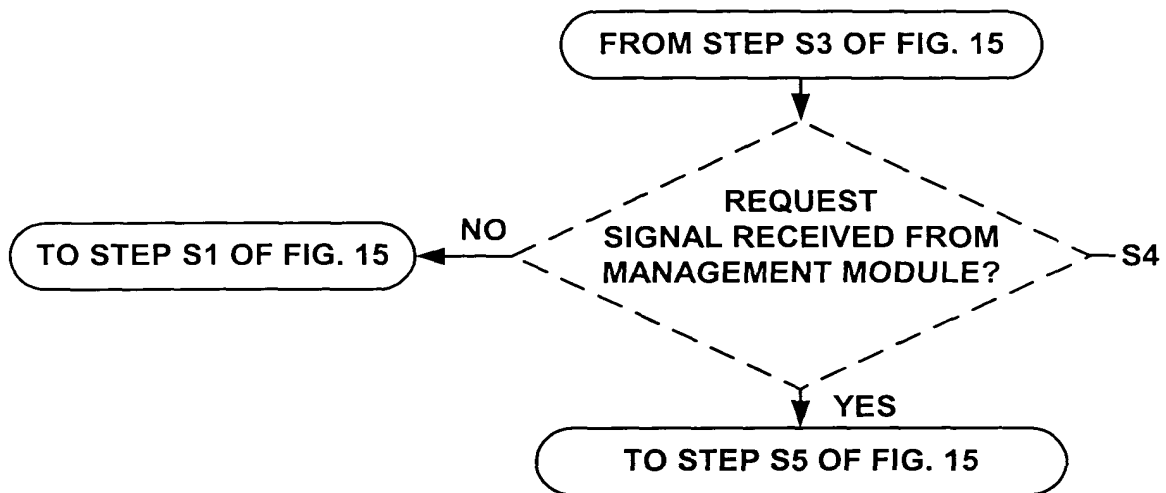
## FIGURE 15

PROCESSING OF EVENT DATA BY EVENT MODULE

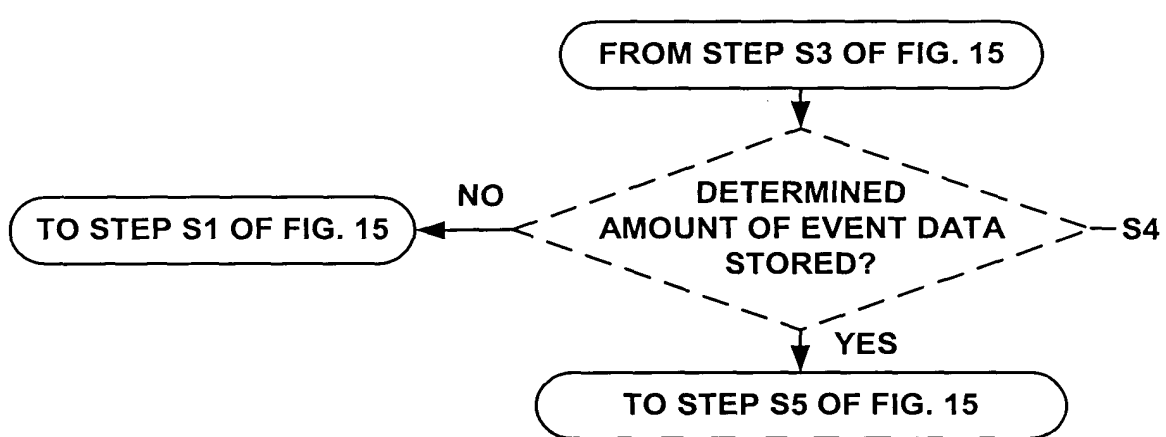


12/23

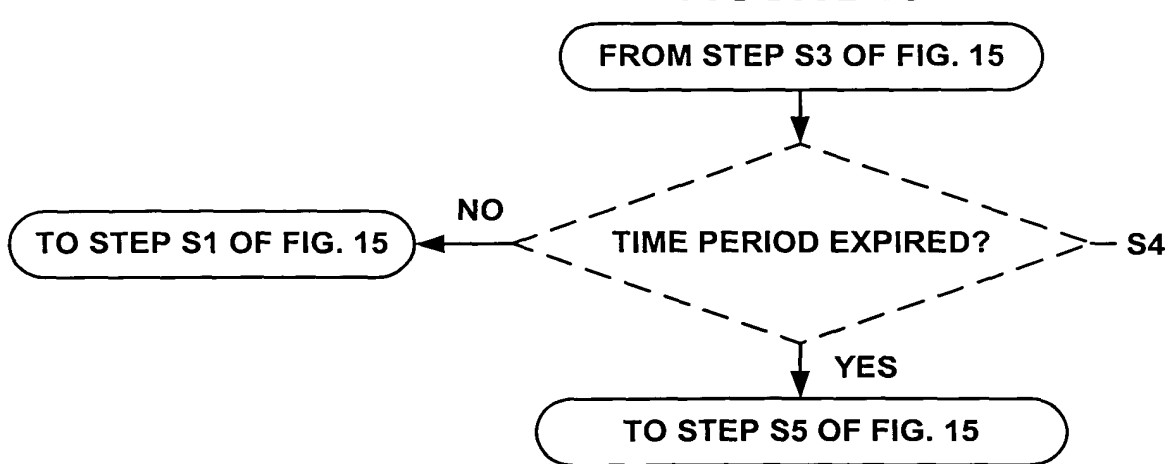
**FIGURE 16**



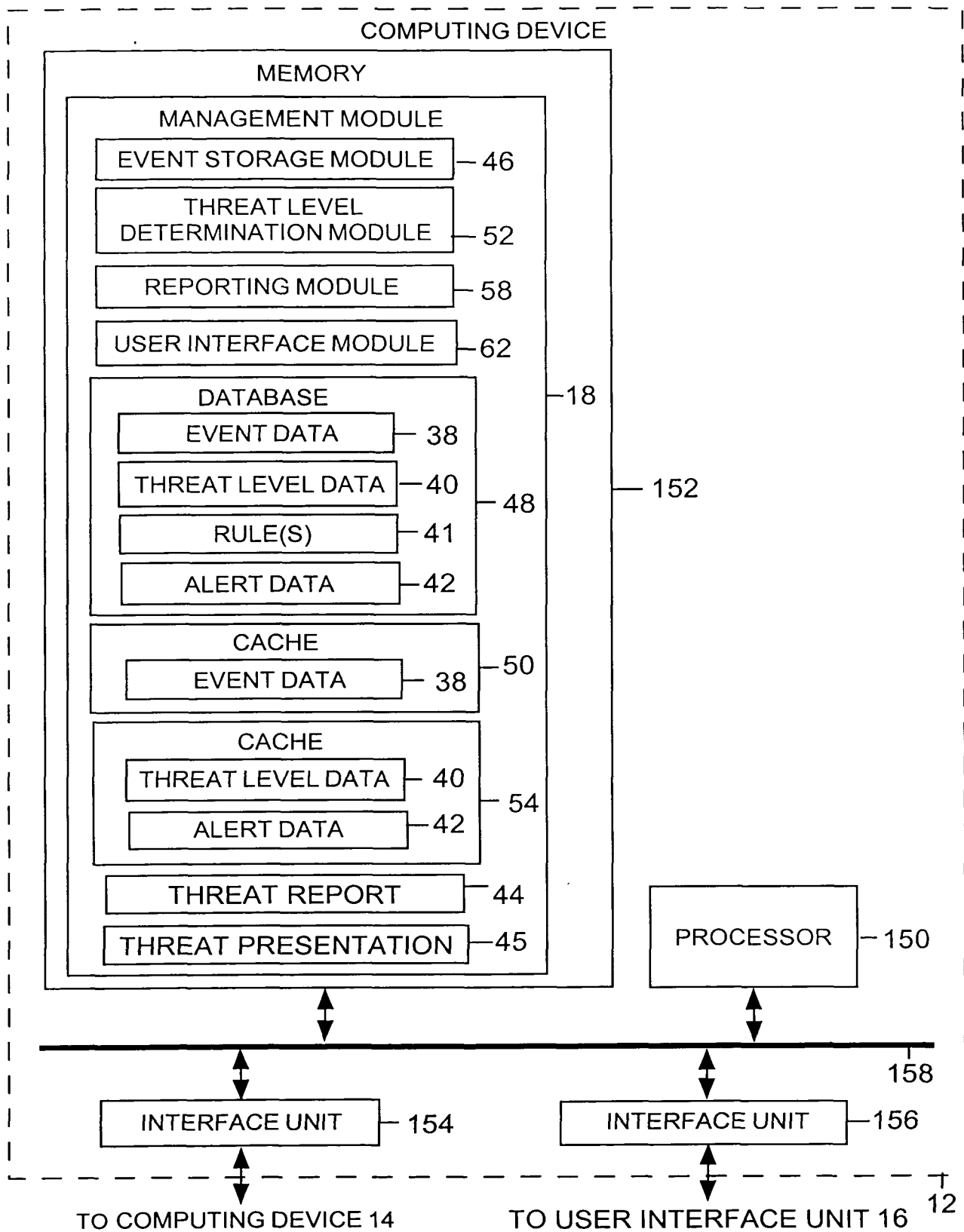
**FIGURE 17**



**FIGURE 18**

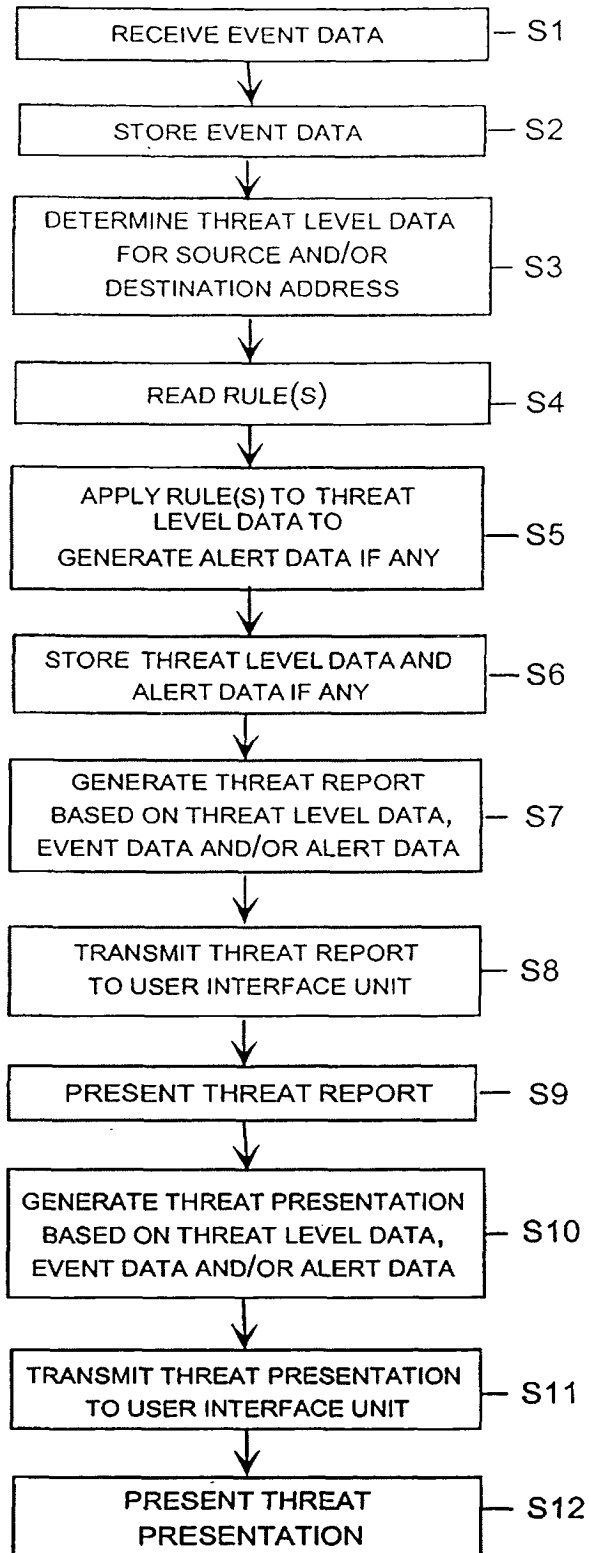


13/23  
**FIGURE 19**



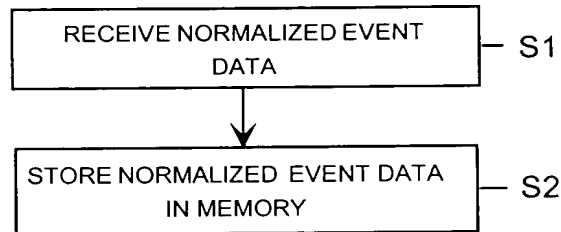
14/23

## FIGURE 20

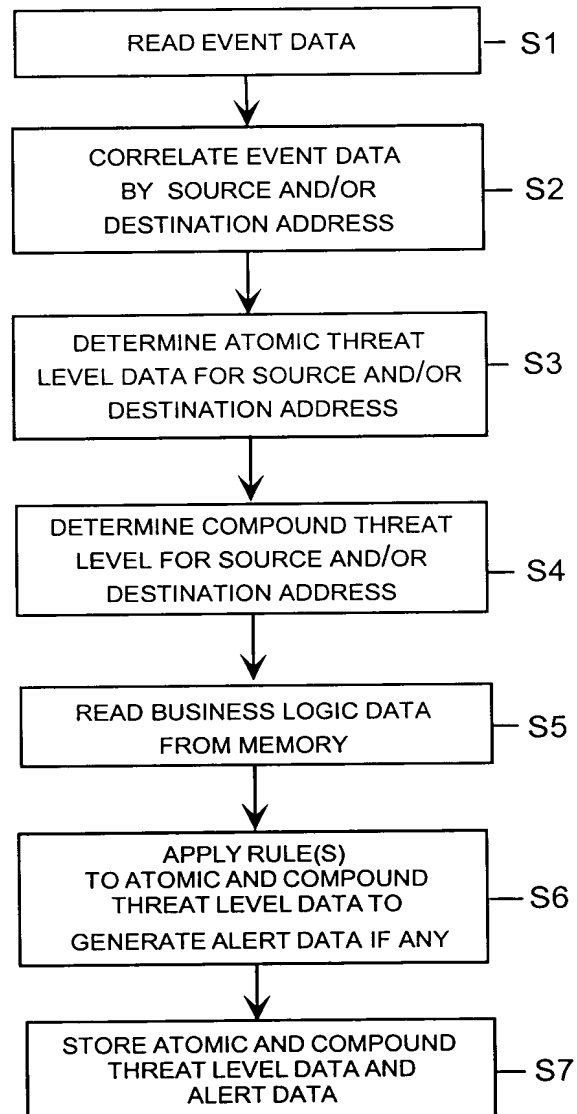


15/23

## FIGURE 21



## FIGURE 22



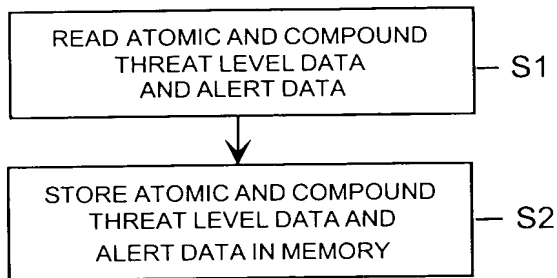
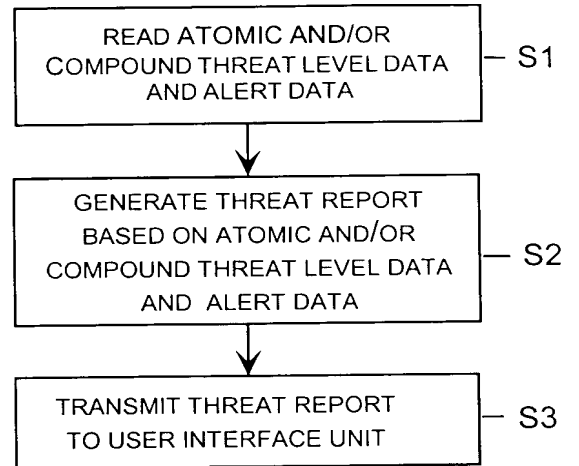
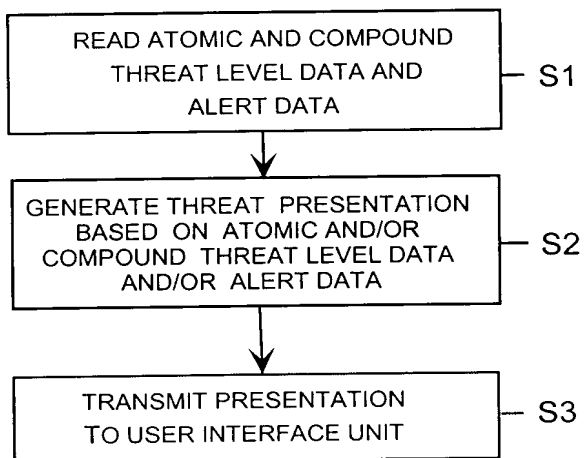
**FIGURE 23****FIGURE 24****FIGURE 25**



FIGURE 26

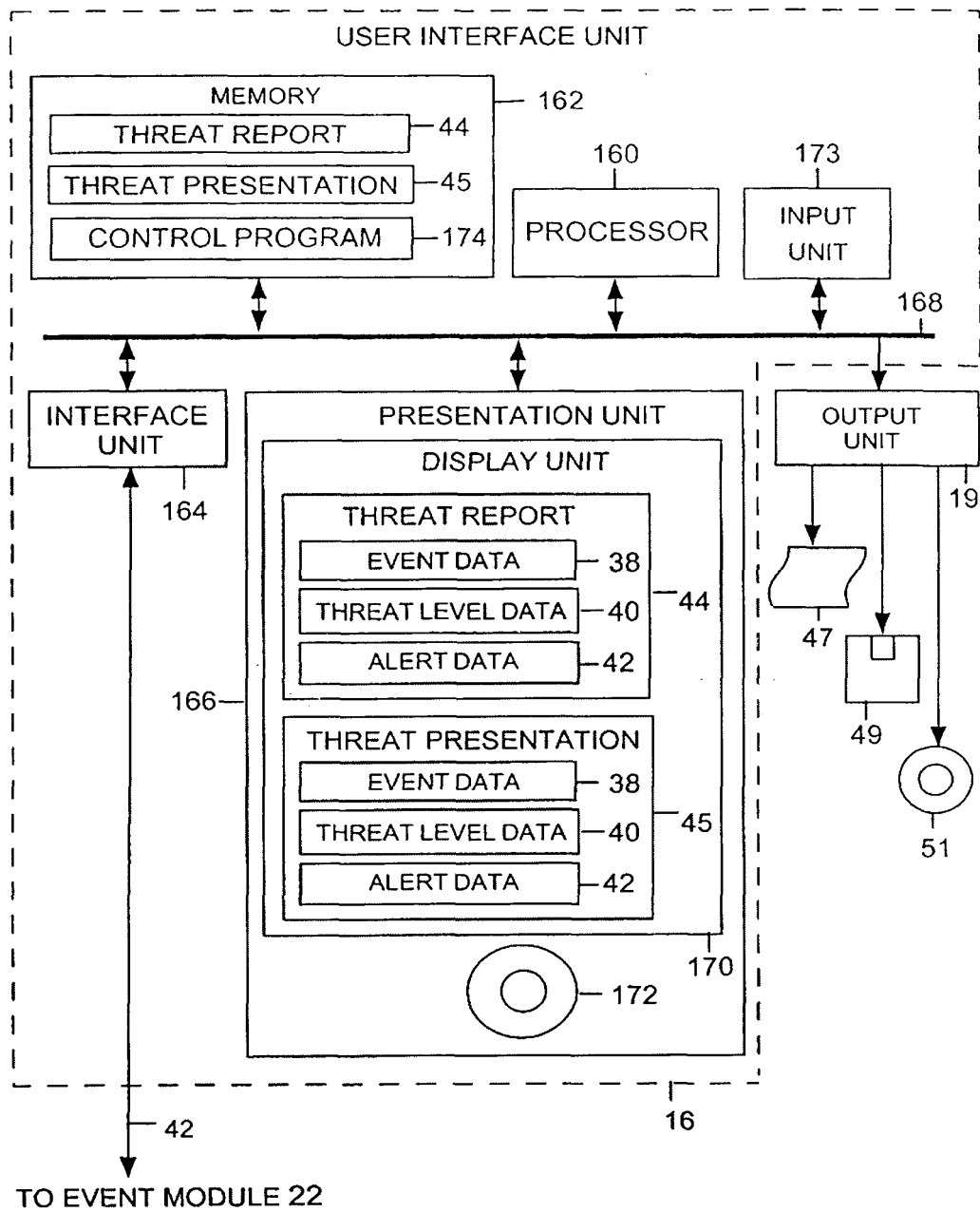
[illegible]

136 SRCTHREAT	138 DSTTHREAT	132 TYPE	134 INFO	38
80000...	80000...	reject	i/f_dir="inbound" i/f_mName="c...	
•	•	•	•	
•	•	•	•	
•	•	•	•	

40

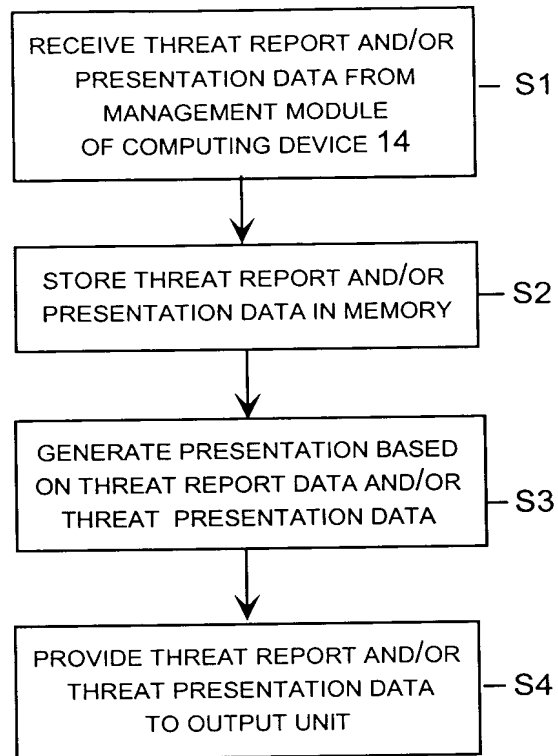
38

18/23  
**FIGURE 27**



19/23

## FIGURE 28



20/23

FIGURE 29

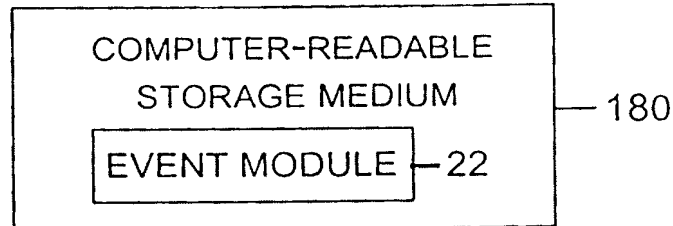


FIGURE 30

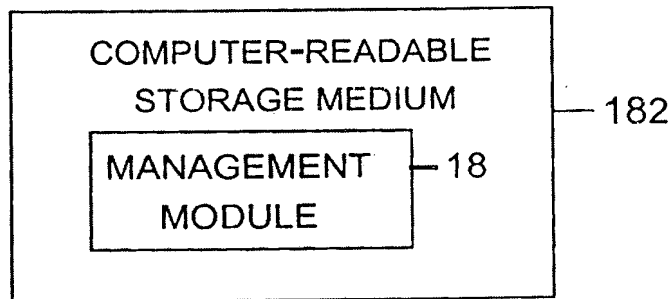
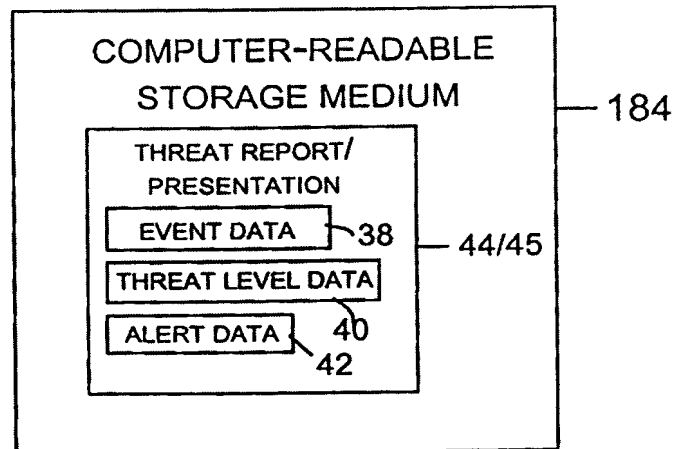
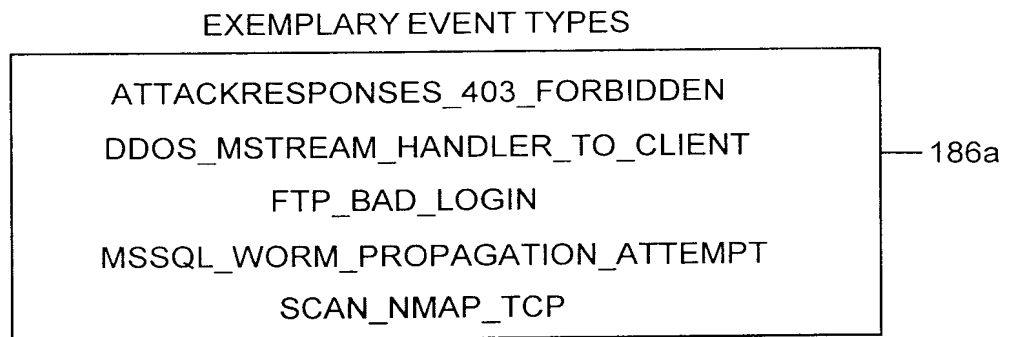


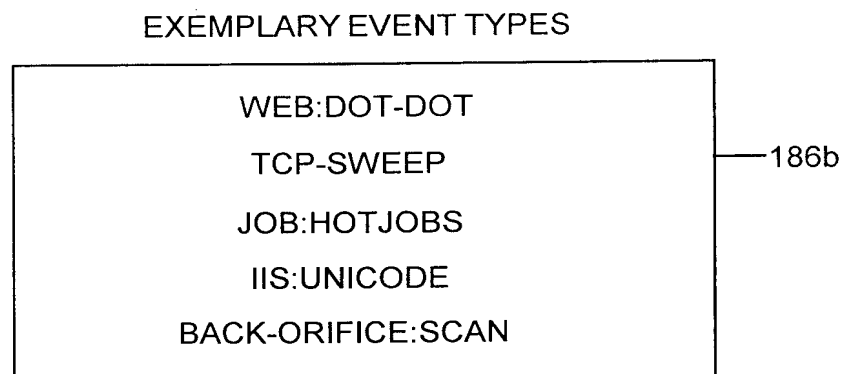
FIGURE 31



21/23



**FIGURE 32A**



**FIGURE 32B**

22/23

## CALCULATIONS

190 THREAT

$$T(H) = TW[H] * NB - TW[NB[H]]$$

192 SOURCE THREAT

$$ST(e) = T(e.src)$$

194 DESTINATION THREAT

$$DT(e) = T(e.dst)$$

196 VULNERABILITY

$$DT(e) = T(e.dst)$$

198 EVENT VALIDITY

$$EV(e) = VALIDITY[e.src][e.type]$$

200 EVENT SEVERITY

$$ES(e) = PRIORITY[e]$$

202 ATOMIC THREAT LEVEL

$$AT(e) = EV(e) * V(e) * ST(e) * ES(e)$$

204 HOST THREAT LEVEL

$$\delta(e, H, t) = \begin{cases} 1 & \text{if } (e.src = H \text{ or } e.dst = H) \\ 0 & \text{otherwise} \end{cases}$$

$$HT(H, t) = \frac{\sum_{i=1}^N AT(e_i) * \delta(e_i, H, t)}{\sum_{i=1}^N \delta(e_i, H, t)}$$

206 DIFFERENTIAL THREAT LEVEL

$$DTL(H, T_1, T_2) = \frac{HT(H, T_1)}{HT(H, T_2)} * \frac{T_2}{T_1} \quad \text{WHERE } 0 < T_1 < T_2$$

**FIGURE 33**

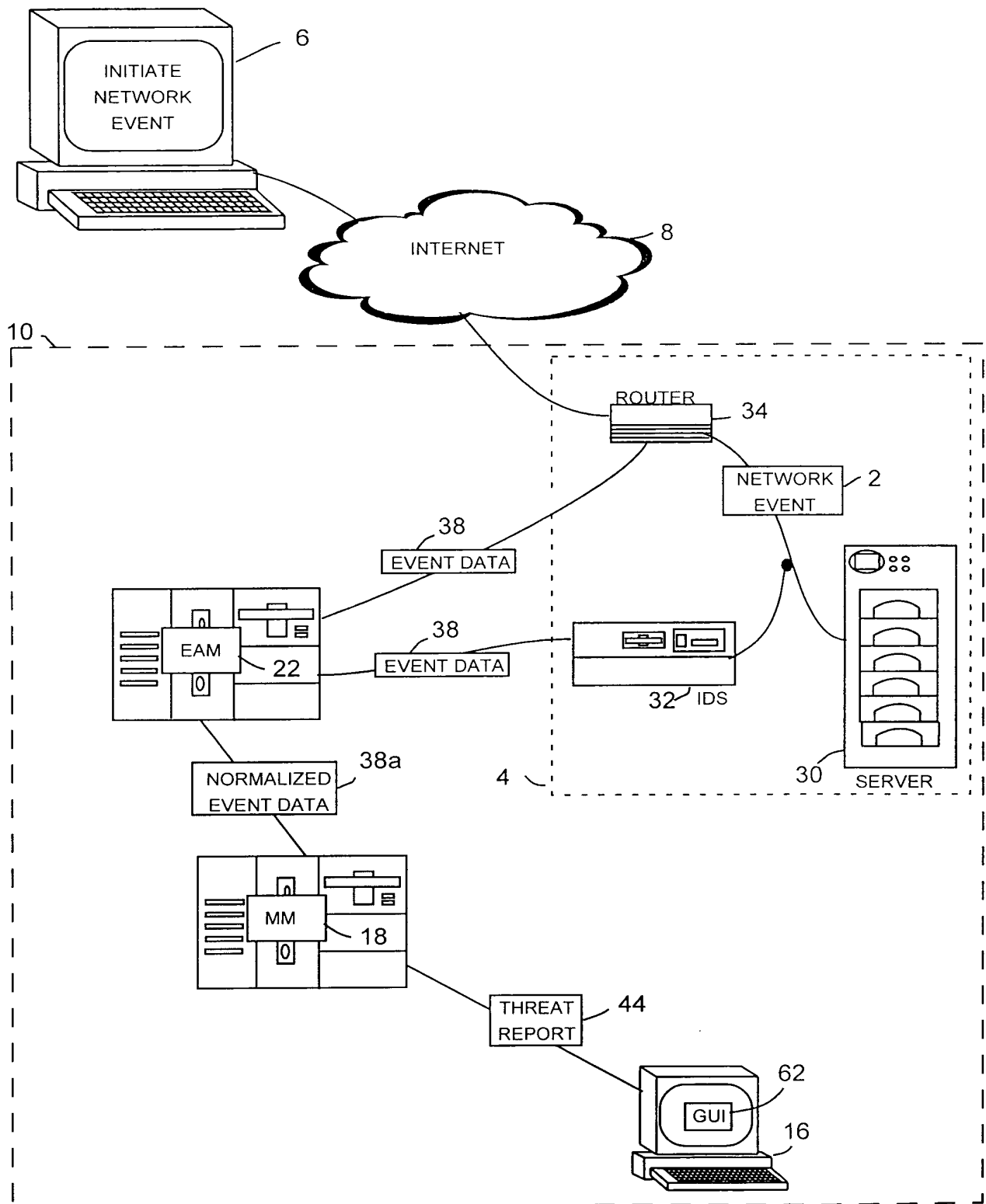


FIGURE 34